



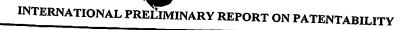
Fird PCIPTO 29 APR 2005 PCT/JP2003/014013

## **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	— (I OI AIGC	ie 30 and Ruje 70)		
Applicant's or agent's file reference MEJ-696	FOR FURTHER	ACTION	See Form PCT/IPEA/416	
		late (day/month/year) 003 (31.10.2003)	Priority date (day/month/year) 31 October 2002 (31.10.2002)	
International Patent Classification (IPC) or n C12N 9/42, 15/56, 5/10, 1/15, 1/	ational classification a		11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Applicant	МЕІЛ ЅЕІКА	KAISHA, LTD.		
This report is the international prelin Authority under Article 35 and trans	ninary examination remitted to the applicant	port, established by this laccording to Article 36.	International Preliminary Examining	
<ul><li>This REPORT consists of a total of</li><li>This report is also accompanied by A</li></ul>	4 sheets	s, including this cover sh	eet.	
a. (sent to the applicant and			sheets, as follows:	
sheets of the descr	iption, claims and/or o	Irawings which have bee	on amended and are the basis of this report ity (see Rule 70.16 and Section 607 of the	
sheets which super beyond the disclos Supplemental Box.		at which this Authority of a spelication as filed, as	considers contain an amendment that goes indicated in item 4 of Box No. I and the	
b. (sent to the International  form only, as indicated Administrative Instructions	in the Supplemental	total of (indicate type equence listing and/or ta Box Relating to Seq	e and number of electronic carrier(s)) bles related thereto, in computer readable uence Listing (see Section 802 of the	
4. This report contains indications relation	ng to the following ite	ms:		
Box No. I Basis of the rep	ort			
Box No. II Priority			·	
Box No. III Non-establishme	ent of opinion with re	gard to novelty, inventive	e step and industrial applicability	
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  Box No. IV Lack of unity of invention				
Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited  Box No. VII Certain defects in the international application				
Box No. VII Certain defects in the international application  Box No. VIII Certain observations on the international application				
Date of submission of the demand				
		Date of completion of this report		
16 April 2004 (16.04.2004)		11 Aug	gust 2004 (11.08.2004)	
Name and mailing address of the IPEA/JP		Authorized officer		
racsimile No.		Telephone No.		



International application No.
PCT/JP2003/014013

Box No	7	D. J. A.	PC1/JP2003/014013
		Basis of the report	
1. With other		to the language, this report is based on the international application in the ladicated under this item.	
		report is based on translations from the original language into the followin is language of a translation furnished for the purpose of:	ing language
		international search (under Rules 12.3 and 23.1(b))	,
		publication of the international application (under Rule 12.4)	
		international preliminary examination (under Rules 55.2 and/or 55.3)	
and a	re not c	to the elements of the international application, this report is based on the receiving Office in response to an invitation under Article 14 are refering to this report):  ternational application as originally filed/furnished	(replacement sheets which have been red to in this report as "originally filed"
		cription:	
	pages	•	
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لــا	pages	••••	
	pages*		, as originally filed/furnishe
_	pages*	, as amended (tog	gether with any statement) under Article 1
	pages*	received by this Authority on	
		received by this Authority on	
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∐ a	sequer	nce listing and/or any related table(s) - see Supplemental Box Relating to Se	quence Listing.
Пт	he ame	endmente hous regulatif to d	
·		endments have resulted in the cancellation of:	
L		e description, pages	
Ĺ	_	e claims, Nos.	
L	the	e drawings, sheets/figs	
L	the	e sequence listing (specify):	
	an	y table(s) related to sequence listing (specify):	
TI ma (R	his repo ade, sin	ort has been established as if (some of) the amendments annexed to this rence they have been considered to go beyond the disclosure as filed, as it	port and listed below had not been indicated in the Supplemental Box
L	the	description, pages	
	the	claims, Nos.	
T T	the	drawings, sheets/figs	
F	in the	sequence licting (energial)	
F	╡ ፟፟፟፟	sequence listing (specify):	
L	any	table(s) related to sequence listing (specify):	
f item 4	applies	, some or all of those sheets may be marked "superseded."	
		may be marked superseaea."	



Ints nal application No.
PCT/JP03/14013

Box No. V Reactiful	soned statement utions and explana	ent under Article 35(2) with regard to novelty, inventive step or industrial applicability; anations supporting such statement			
1. Statement					
Novelty (N)		Claims	1-21	YES	
		Claims		NO	
Inventive step (IS)	ep (IS)	Claims	2, 4-5	YES	
		Claims	1, 3, 6-21	NO	
Industrial applicability (IA)	plicability (IA)	Claims	1-21	YES	
		Claims		NO	

2. Citations and explanations (Rule 70.7)

Document 1: WO, 01/90375, A1 (Meiji Seika Kaisha, Ltd.), 29 November, 2001

Claims 1, 3, 6-21

The inventions described in claims 1, 3 and 6-21 do not appear to involve an inventive step based on document 1 cited in the ISR.

Document 1 describes a cellulase having the amino acid sequence represented by SEQ ID NO: 1. In the inventions of claims 1, 3 and 6-21, introducing a mutation to the cellulase in the inventions described in document 1 at an optional position and producing a mutant having higher cellulase activity than a wild type can be easily achieved by a party skilled in the art.

Claims 2, 4-5

The inventions described in claims 2 and 4-5 are not described in document 1 cited in the ISR and thus they appear to be novel and to involve an inventive step.

A mutant cellulase having amino acid sequences represented by SEQ ID NOS: 3-5 is not described in document 1; nor can this be easily conceived of by a party skilled in the art.

onal application No.

INTERNATIONAL PREISMINARY REPORT ON PATENTABILITY	PCT/JP03/14013
Supplemental Box Relating to Sequence Listing	
Continuation of Box No. 1, item 2:	
<ol> <li>With regard to any nucleotide and/or amino acid sequence disclosed in the international invention, this report was established on the basis that of:</li> </ol>	application and necessary to the claimed
a. type of material	
a sequence listing	
table(s) related to the sequence listing	
b. format of material	
in written format	
in computer readable form	
c. time of filing/furnishing	
contained in the international application as filed	
filed together with the international application in computer readable form	
furnished subsequently to this Authority for the purpose of search and/or exa	amination
received by this Authority as an amendment* on	
2. In addition, in the case that more than one version or copy of a sequence listing and or furnished, the required statements that the information in the subsequent or addition as filed or does not go beyond the application as filed, as appropriate, we have a subsequence of the	itional conies is identical to that in the
3. Additional comments:	were furnished.
* If item 4 in Box No. I applies, the listing and /or table(s) related thereto, which form par "superseded".	rt of the basis of the report, may be marked